

CU
5/21/07

above

That is, among the inventions, the invention of claim
43 comprises a random number generating unit for outputting
"1" and "0" as random number data, a first counter for counting
a given number of times, a second counter for counting the
5 number of times of occurrence of the random number data
outputted from the random number generating unit to produce
count data, a register for holding the count data of the second
counter in every cycle counted by the first counter, and an
output circuit for outputting the count data held in this
10 register as verification data.

Besides, among the inventions, the invention of claim
43 comprises, instead of the output circuit, a comparator for
comparing previously set upper limit comparison data and
lower limit comparison data with the data held in the register
15 to output a verification signal.

Besides, among the inventions, the invention of claim
44 comprises a random number generating unit for outputting
"1" and "0" as random number data, a data holding unit for
holding previous random number data outputted from this
20 random number generating unit, a comparator for comparing
present random number data outputted from the random number
generating unit with the previous random number data held in
the data holding unit, outputting a count up signal when both
are identical to each other, and outputting a count clear
25 signal when both are different from each other, a counter for

for a user to perform a statistical processing, and therefore
it is possible to provide the multi-bit random number
generator which can easily verify the uniformity of
occurrence of random number data and can raise the
5 reliability.

Further, according to the invention ^{above} ~~of claim 51~~ among

the inventions, the uniformity of occurrence of random number
data can be verified by itself, and it becomes unnecessary
for a user to perform a statistical processing, and therefore

10 it is possible to provide the probability generator which can
easily verify the uniformity of occurrence of random number
data and can raise the reliability.